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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/697,497	10/27/2000	Ronald Coleman	CITI0192-US	3524
	7590 11/25/200 DING LLP (CITI CUS	EXAMINER		
ATTN: GEORG	GE T. MARCOU	AKINTOLA, OLABODE		
1700 PENNSYLVANIA AVENUE, NW SUITE 200			ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20006	3691		
			MAIL DATE	DELIVERY MODE
		11/25/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)		
Office Action Summary		09/697,4	197	COLEMAN, RONALD		
		Examine	er	Art Unit		
		OLABO	DE AKINTOLA	3691		
The Period for Re	MAILING DATE of this community	nication appears on th	ne cover sheet with the	correspondence ac	idress	
A SHORTI WHICHEV - Extensions after SIX (6) - If NO period - Failure to re Any reply re	ENED STATUTORY PERIOD F ER IS LONGER, FROM THE N of time may be available under the provision MONTHS from the mailing date of this com for reply is specified above, the maximum s ply within the set or extended period for repl ceived by the Office later than three months int term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF T s of 37 CFR 1.136(a). In no e munication. tatutory period will apply and y will, by statute, cause the ap	THIS COMMUNICATION IN THE COMM	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).	•	
Status						
2a)⊠ This 3)⊡ Sinc	consive to communication(s) fil action is FINAL . e this application is in condition ed in accordance with the pract	2b)☐ This action is n for allowance excep	— non-final. ot for formal matters, рі		e merits is	
Disposition o	f Claims					
4a) (5)∭ Claii 6)⊠ Claii 7)∭ Claii	m(s) <u>1-9</u> is/are pending in the a of the above claim(s) is/a m(s) is/are allowed. m(s) <u>1-9</u> is/are rejected. m(s) is/are objected to. m(s) are subject to restri	are withdrawn from o				
9)□ The s	specification is objected to by the	ne Examiner.				
10)☐ The o	drawing(s) filed on is/are cant may not request that any objected to acement drawing sheet(s) including to bath or declaration is objected to	e: a) accepted or bection to the drawing(s) g the correction is requ	be held in abeyance. Seired if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 C	, ,	
Priority unde	· 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice of D 3) Information	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (Disclosure Statement(s) (PTO/SB/08))/Mail Date		4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date		

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fogel et al. (US 6542905) ("Fogel") in view of Mathews, Jr. et al (US 6526358) ("Mathews") and further in view of Dumais et al (US 6192360) ("Dumais").

Re claims 1, 7: Fogel teaches a method comprising: identifying at least one variable of the a system (col. 4, lines 20-21, col. 5, lines 24-30); determining a first hypothesis about the at least one variable (col. 4, lines 47-50); identifying a change of value in the at least one variable of the system (col. 4, lines 37-43, col. 5, lines 63-65); determining by probabilistic induction at least

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one cause of the change of value in the at least one variable of the system (Abstract, col. 6, line 14 thru col. 7, lines 32).

Fogel does not explicitly teach risk assessment system; providing an initial probability of the first hypothesis about the at least one variable, wherein the initial probability has a range greater than 0.0 and less than 1.0; and evaluating the initial probability of the first hypothesis based on the at least one cause. However, Fogel teaches applicability in financial service industry including risk factors for quality indicator or performance measure (col. 3, lines 14-30; col. 10, lines 31-33). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fogel to include risk assessment system. One would have been motivated to do so in order to identify data integrity issues.

Mathews teaches providing an initial probability of the first hypothesis about the at least one variable, wherein the initial probability has a range greater than 0.0 and less than 1.0 (col. 6, lines 43-49: "initial knowledge (a priori information) as to the probability of a fault occurring $(P_{ap}(H_i))...)$; evaluating the initial probability of the first hypothesis based on the at least one cause (col. 6, lines 19-64). Dumais in the same field of art (Bayesian networks) teaches that this initial knowledge represents a prior probability assigned to a given hypothesis i (col. 3, lines 35 - 67). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Fogel to include these steps as taught by Matthews and evidenced by Dumais. One would have been motivated to do so in order to determine the statistical accuracy of the hypothesis, thereby enhancing the functionality of the process.

Fogel in view of Matthews in view of Dumais hereinafter referred to as "Modified Fogel" Re claims 2 and 3: Modified Fogel teaches input and output (Fogel: see figure)

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Re claim 4: Modified Fogel teaches external data (Fogel: see figure)

Re claim 5: Modified Fogel teaches server (Fogel: see figure)

Re claim 6: Modified Fogel teaches observable information (Fogel: see figure)

Re claims 8: Modified Fogel teaches hypothesizing that the at least one variable has not changed (col. 4, lines 47-50)

Re claim 9: Modified Fogel teaches providing a prior probability of the at least one variable and providing an initial conditional probability of the at least one variable (Dumais: col. 3, lines 35-67)

Response to Arguments

Applicant's arguments filed 10/08/2008 have been fully considered but they are not persuasive.

Applicant argues that Fogel fails to teach "determining by probabilistic induction at least one cause of the change of value in the at least one variable of the risk assessment system, wherein the at least one cause is a plausible source of error" as recited in claim 1. In particular, Applicant argues that Fogel does not require "probabilistic induction". Examiner respectfully disagrees. Examiner notes that according to the specification of the instant application (page 9, line 27 through page 10, line 9), applicant admits that both deterministic and probabilistic models are well known in the art. Furthermore, Fogel at col. 10, lines 5-17 explicitly describes a probabilistic model.

Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Matsuda et al (US 4860214) teaches an inferences system (see col. 16, lines 35-64).

Ferkinhoff et al (US 6304833) teaches an hypothesis selection for evidential reason system (col. 4, lines 46-67).

Heiman, V. B., (Auditors' assessment of the likelihood of analytical review explanations", University of Michigan, 1988) teaches *evaluating* the *probability* that a *hypothesized cause* is responsible for an analytical review fluctuation (See Abstract (Summary)).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to OLABODE AKINTOLA whose telephone number is (571)272-3629. The examiner can normally be reached on M-F 8:30AM -5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Kalinowski can be reached on 571-272-6771. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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OA

/Hani M. Kazimi/

Primary Examiner, Art Unit 3691